AMENDMENTS TO THE CLAIMS

- 1. (Currently amended) A method of fabricating a steel part, the method comprising the steps of:
- preparing and casting a steel consisting essentially of the following composition in percentage by weight: $0.06\% \le C \le 0.25\%$; $0.5\% \le Mn \le 2\%$; traces $\le Si \le 3\%$; traces $\le Ni \le 4.5\%$; traces $\le Al \le 3\%$; traces $\le Cr \le 1.2\%$; traces $\le Mo \le 0.30\%$; traces $\le V \le 2\%$; traces $\le Cu \le 3.5\%$; $0.005\% \le S \le 0.2\%$; 5 ppm to 50 ppm of B, 0.005% to 0.04% of Ti, where the Ti content is equal to at least 3.5 times the N content of the steel;

at least one of the following elements: Ca up to 0.007%; Te up to 0.03%; Se up to 0.05%; Bi up to 0.05%; and Pb up to 0.1%, and

wherein the steel satisfies at least one of the following conditions:

- * $0.5\% \le Cu \le 3.5\%$;
- $*0.5\% \le V \le 2\%$;
- * $2\% \le Ni \le 4.5\%$ and $1\% \le Al \le 2\%$;

the remainder being iron and impurities resulting from preparation;

- · hot deforming the cast steel at least once at a temperature in the range 1100°C to 1300°C in order to obtain a blank of the part;
- · controlled cooling of the blank for the part in still air or forced air to obtain a bainite microstructure; and
- · heating the steel to perform precipitation annealing before or after machining the part from said blank,

wherein the hot deformation is forging;

wherein when the steel satisfies the condition regarding Cu, the precipitation annealing is performed in the range of 425°C to 500°C for 1 h to 10 h, when the steel satisfies the condition regarding V, the precipitation annealing is performed in the range of 500°C to 600°C for more than 1 h, and when the steel satisfies the condition regarding Ni and Al, the precipitation annealing is performed in the range of 500°C to 550°C for more than 1 h;

wherein the controlled cooling of the blank is performed at a rate less than or equal to 3°C/s in the range of 600°C to 300°C,

wherein the part has a tensil-tensile strength Rm of 1000 MPa to 1300 MPa, and a yield strength Re of greater than or equal to 900 MPa, and

wherein the bainite microstructure obtained after controlled cooling of the blank is 100% bainite.

2-4. (Cancelled)

5. (Currently amended) A method of fabricating a steel part, the method comprising the steps of:

preparing and casting a steel consisting essentially of the following composition in percentage by weight: $0.06\% \le C \le 0.25\%$; $0.5\% \le Mn \le 2\%$; traces $\le Si \le 3\%$; traces $\le Ni \le 4.5\%$; traces $\le Al \le 3\%$; traces $\le Cr \le 1.2\%$; traces $\le Mo \le 0.30\%$; traces $\le V \le 2\%$; traces $\le Cu \le 3.5\%$; $0.005\% \le S \le 0.2\%$; 0.005% to 0.06% of Nb; 5 ppm to 50 ppm of B, 0.005% to 0.04% of Ti, where the Ti content is equal to at least 3.5 times the N content of the steel;

at least one of the following elements: Ca up to 0.007%; Te up to 0.03%; Se up to 0.05%; Bi up to 0.05%; and Pb up to 0.1%, and

wherein the steel satisfies at least one of the following conditions:

- * $0.5\% \le Cu \le 3.5\%$;
- $*0.5\% \le V \le 2\%$:
- * $2\% \le Ni \le 4.5\%$ and $1\% \le Al \le 2\%$;

the remainder being iron and impurities resulting from preparation;

- · hot deforming the cast steel at least once at a temperature in the range 1100°C to 1300°C in order to obtain a blank of the part;
- · controlled cooling of the blank for the part in still air or forced air to obtain a bainite microstructure; and
- · heating the steel to perform precipitation annealing before or after machining the part from said blank,

wherein the hot deformation is forging;

wherein when the steel satisfies the condition regarding Cu, the precipitation annealing is performed in the range of 425°C to 500°C for 1 h to 10 h, when the steel satisfies the condition regarding V, the precipitation annealing is performed in the range of 500°C to 600°C for more than 1 h, and when the steel satisfies the condition regarding Ni and Al, the precipitation annealing is performed in the range of 500°C to 550°C for more than 1 h;

wherein the controlled cooling of the blank is performed at a rate less than or equal to 3°C/s in the range of 600°C to 300°C,

wherein the part has a tensil-tensile strength Rm of 1000 MPa to 1300 MPa, and a yield strength Re of greater than or equal to 900 MPa, and

wherein the bainite microstructure obtained after controlled cooling of the blank is 100% bainite.

6-7. (Cancelled)

- 8. (Previously presented) The method according to claim 1, wherein the C content of the steel lies in the range 0.06% to 0.20%.
- 9. (Previously presented) The method according to claim 8, wherein Mn content of the steel lies in the range 0.5% to 1.5%, and wherein the Cr content lies in the range 0.3% to 1.2%.
- 10. (Previously presented) The method according to claim 8, wherein the Ni content of the steel lies in the range traces to 1%.
- 11. (Previously presented) The method according to claim 8, wherein the Ni content of the steel lies in the range 2% to 4.5%, and wherein the Al content lies in the range 1% to 2%.
- 12-18. (Cancelled)
- 19. (Original) A steel part, obtained by the method according to claim 1.
- 20-21. (Cancelled)
- 22. (Currently amended) The method according to claim 1, wherein the conditions condition regarding V, Ni and Al are is not satisfied, and therefore the steel satisfies the condition regarding Cu, and the precipitation annealing is performed in the range of 425°C to 500°C for 1 h to 10 h.
- 23. (Cancelled)

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24. (Currently amended) The method according to claim 1, wherein the conditions condition regarding Cu and V are is not satisfied, and therefore the steel satisfies the condition regarding Ni and Al, and the precipitation annealing is performed in the range of 500°C to 550°C for more than 1 hr.